

ISS Payload Human Factors Requirements Compliance Feedback Form

Payload to be evaluated: PMDIS/TRAC

Place and Date of evaluation: JSC Bldg. 56 on 3/13/03

Payload Developer POC: Jennifer Edgecombe / Don Peterson Signature: _____

HFIT person performs evaluation: Stacey Vaeth / L.D. Stevenson Signature: _____

Acceptable			Requirements Section and 882 number	Human Factors/Crew Interface Problem	Suggested Resolution:	Consequences if not fixed	HFIT Disposition
Yes	No	N/A					
	X		3.12.2.2.A 882-3-1	Not sure of Geometrical presentation of hardware in operational configuration.	View hardware in its operational configuration in Winnipeg or before JSC Bench Review.		
	X		3.12.4.2.1 882-3-2	Cables need to be labeled.	Once Cables have been labeled, allow HIFT visual review or send electronic pictures showing labels on all cables.		
X			3.12.4.3.1 882-3-3	Does not meet One-Handed Operation Requirements.	Two Handed Operations are required only during Payload setup. And crew restraints can be used to secure the astronaut during setup.		Acknowledge that two-handed operations are required and that restraints can be used at crew's discretion.
X			3.12.4.3.6.A 882-3-4	Connector Spacing for Laptop Connectors do not meet the minimum spacing requirement of 25mm (1 inch).	Get Approval on Processed Exception 57257-NA-0005 (E-4 in SSP 57257).		Approve this Exception due to laptop being COTS item and based on PCB approval of Exception 57257- NA-0005.

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	X		3.12.4.3.7 882-3-5	Need to see data on Arc Containment from PD to show that they meet the requirement.	Email Data to HFIT Team for Review.		
		X	3.12.4.3.8 882-3-6	Is all hardware planned to be stowed in static / plastic bags to protect against contamination?	PD – 4 HDDs will be in laptops, 4 HDDs stowed in ESB bags. Other hardware is packed in CTBs with foam on launch and during stowage on the ISS.		
	X		3.12.4.3.12.B 882-3-7	Labels or Codes are not currently on the connectors.	Once Cables have been labeled and/or coded, allow HIFT visual review or send electronic pictures showing labels on all cables.		
	X		3.12.4.2.15.B 882-3-8	Cables are not secured by a clamp and are not contained.	Velcro needs to be added to restrain the audio cable and a visual inspection needs to be completed on the operational configuration to look at the other cables.		
	X		3.12.4.3.15.D 882-3-9	There are no restraints on the cables and all fall into the over 1 foot category of Loose Cables.	Velcro needs to be added to the audio cable and HFIT needs to see the operational configuration to look at connector cables to see if they also need to be restrained.		
	X		3.12.7 882-3-10	Labeling needs to be added to all Payload Hardware.	Once labeling complete, pictures or visual inspection of labels on hardware needs to be shown to the HFIT Team.		
X			3.12.9.2 882-3-11	2 Sharp corners found on edge of HDDs.	Add a note into the Crew Procedures so that they are aware of the possible sharp edge hazard.		Upon Crew Review and PSRP recommendation, this is not a sharp edge hazard.

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X			3.12.9.12 882-3-12	Does Payload meet 30- second crew egress requirement?	PD to provide data showing that they have tested to show they meet this requirement.		PD provided COC to Verification group on 3/11/03. See VDCN 12A- 0032.

Closed all open actions

Place and date: _____

Payload Developer POC: _____ Signature: _____

HFIT person concurrence: _____ Signature: _____